

SUPPLEMENTAL EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Stephen Perry, Registration No. 32,107 on 05/07/2008.

The application has been amended as follows:

1. (Currently Amended) A computer implemented method of generating summary information for an electronic document for use by a mobile communication device, comprising:

receiving a request from a user of the mobile communication device for document summary information of the electronic document;

determining whether the electronic document is a structured document, an unstructured document or unformatted document;

generating the document summary information which includes an assemblage of a plurality of summary entries selected from the contents of the electronic document based on the determining step, wherein the generating document summary information includes determining:

if the electronic document is a structured document by examining whether the electronic document contains content structure which includes a table of content, a plurality of spreadsheet worksheets, and/or a plurality of document pages,

for the electronic document containing a table of content, selecting the plurality of summary entries from the electronic document based on top level entries of the table of content,

for the electronic document containing a plurality of spreadsheet worksheets, selecting the plurality of summary entries from the electronic document containing one entry for each worksheet in the spreadsheet document, and

for the electronic document containing a plurality of document pages, selecting **a** the plurality of summary entries which correspond to contiguous ranges of pages in the electronic document;

if the electronic document is an unstructured document by examining changes in formatting of text in the electronic document, wherein the formatting of text includes font properties, paragraph alignment and indentation, and text properties, selecting the plurality of summary entries from the electronic document based on the examining changes in the formatting of text, and wherein the font properties includes font names, text font sizes, text font weights, and text font styles;

otherwise if the electronic document is an unformatted document by examining paragraph sizes and paragraph text patterns, selecting the plurality of summary entries from the electronic document based on the examining paragraph sizes and paragraph text patterns; and
providing the document summary information for the mobile communication device.

Claims 2-8 (Cancelled)

9. (Previously Presented) The computer implemented method of claim 1, wherein the summary information is provided to the mobile communication device without the electronic document.

10. (Currently Amended) A computer program product, comprising:
a computer storage medium;
computer program instructions stored on the computer storage medium;
the computer program instructions being executable on a processor for generating document summary information for an electronic document by:

receiving a request from a user of a mobile communication device for the document summary information of the electronic document;

determining whether the electronic document is a structured document, an unstructured document or unformatted document;

generating the document summary information which includes an assemblage of a plurality of summary entries selected from the contents of the electronic document based on the determining step, wherein the generating document summary information includes determining:

if the electronic document is a structured document by examining whether the electronic document contains content structure which includes a table of content, a plurality of spreadsheet worksheets, and/or a plurality of document pages,

for the electronic document containing a table of content, selecting the plurality of summary entries from the electronic document based on top level entries of the table of content,

for the electronic document containing a plurality of spreadsheet worksheets, selecting the plurality of summary entries from the electronic document containing one entry for each worksheet in the spreadsheet document, and

for the electronic document containing a plurality of document pages, selecting **a** the plurality of summary entries which correspond to contiguous ranges of pages in the electronic document;

if the electronic document is an unstructured document by examining changes in formatting of text in the electronic document, wherein the formatting of text includes font properties, paragraph alignment and indentation, and text properties, selecting the plurality of summary entries from the electronic document based on the examining changes in the formatting of text, and wherein the font properties includes font names, text font sizes, text font weights, and text font styles;

otherwise if the electronic document is an unformatted document by examining paragraph sizes and paragraph text patterns, selecting the plurality of summary entries from the electronic document based on the examining paragraph sizes and paragraph text patterns; and providing the document summary information for the mobile communication device.

Claims 11-18 (Cancelled)

Claim 19 (Currently Amended) A method of generating summary information for an electronic document, comprising:

identifying an electronic document to determine whether the electronic document is a structured document, an unstructured document or unformatted document;

generating document summary information having a plurality of summary entries selected from contents of the electronic document based on the determining step, wherein the generating document summary information includes determining:

if the electronic document is a structured document by examining whether the electronic document contains content structure which includes a table of content, a plurality of spreadsheet worksheets, and/or a plurality of document pages,

for the electronic document containing a table of content, selecting the plurality of summary entries from the electronic document based on top level entries of the table of content,

for the electronic document containing a plurality of spreadsheet worksheets, selecting the plurality of summary entries from the electronic document containing one entry for each worksheet in the spreadsheet document, and

for the electronic document containing a plurality of document pages, selecting **a** the plurality of summary entries which correspond to contiguous ranges of pages in the electronic document;

if the electronic document is an unstructured document by examining changes in formatting of text in the electronic document, wherein the formatting of text includes font properties, paragraph alignment and indentation, and text properties, selecting the plurality of summary entries from the electronic document based on the examining changes in the formatting

of text, and wherein the font properties includes font names, text font sizes, text font weights, and text font styles;

otherwise if the electronic document is an unformatted document by examining paragraph sizes and paragraph text patterns, selecting the plurality of summary entries from the electronic document based on the examining paragraph sizes and paragraph text patterns.

Claim 20 (Original) The method of claim 19, further comprising: providing the summary information in response to a request for the electronic document by a mobile communication device.

Claims 21-27 (Cancelled)

Claim 28 (Currently Amended) A server for generating summary information for electronic documents, comprising:

a memory;

a document service process for receiving a request from a user of a mobile communication device for document summary information of an electronic document;

a structured document summarization process for determining whether an electronic document is a structured document by examining whether the electronic document contains content structure which includes a table of content, a plurality of spreadsheet worksheets, and/or a plurality of document pages,

for the electronic document containing a table of content, selecting the plurality of summary entries from the electronic document based on top level entries of the table of content,

for the electronic document containing a plurality of spreadsheet worksheets, selecting the plurality of summary entries from the electronic document containing one entry for each worksheet in the spreadsheet document, and

for the electronic document containing a plurality of document pages, selecting **a** the plurality of summary entries which correspond to contiguous ranges of pages in the electronic document;

an unstructured document summarization process for determining whether an electronic document is an unstructured document by examining changes in formatting of text in the electronic document, wherein the formatting of text includes font properties, paragraph alignment and indentation, and text properties, selecting the plurality of summary entries from the electronic document based on the examining changes in the formatting of text, and wherein the font properties includes font names, text font sizes, text font weights, and text font styles;

an unformatted document summarization process for determining whether an electronic document is an unformatted document by examining paragraph sizes and paragraph text patterns, selecting the plurality of summary entries from the electronic document based on the examining paragraph sizes and paragraph text patterns;

wherein the generating document summary information includes an assemblage of a plurality of summary entries selected from contents of the electronic document based on the

determination whether the electronic document is a structured document, an unstructured document or an unformatted document; and

the document service process for transmitting the document summary information to the mobile communication device.

Claims 29-34 (Cancelled)

Claim 35 (Currently Amended) A system which facilitates the communication of summary information for electronic documents to mobile communication devices, comprising:

a server having:

a memory;

a structured document summarization process for determining whether an electronic document is a structured document by examining whether the electronic document contains content structure which includes a table of content, a plurality of spreadsheet worksheets, and/or a plurality of document pages,

for the electronic document containing a table of content, selecting the plurality of summary entries from the electronic document based on top level entries of the table of content,

for the electronic document containing a plurality of spreadsheet worksheets, selecting the plurality of summary entries from the electronic document containing one entry for each worksheet in the spreadsheet document, and

for the electronic document containing a plurality of document pages, selecting **a** **the** plurality **of** summary entries which correspond to contiguous ranges of pages in the electronic document;

an unstructured document summarization process for determining whether an electronic document is an unstructured document by examining changes in formatting of text in the electronic document, wherein the formatting of text includes font properties, paragraph alignment and indentation, and text properties, selecting the plurality of summary entries from the electronic document based on the examining changes in the formatting of text, and wherein the font properties includes font names, text font sizes, text font weights, and text font styles;

an unformatted document summarization process for determining whether an electronic document is an unformatted document by examining paragraph sizes and paragraph text patterns, selecting the plurality of summary entries from the electronic document based on the examining paragraph sizes and paragraph text patterns;

wherein the generating document summary information includes an assemblage of a plurality of summary entries selected from contents of the electronic document based on the determination whether the electronic document is a structured document, an unstructured document or an unformatted document; and

a wireless communication network which communicates the document summary information to a mobile communication device in response to a request for the electronic document.

Claim 36 (Previously Presented) The system of claim 35, further comprising: the mobile communication device which receives the document summary information in response to the request for the electronic document.

Claim 37-39 (Cancelled)

Claim 40 (Previously Presented) The computer implemented method of claim 1, wherein said selecting the plurality of summary entries from the electronic document based on differences in content properties comprises determining if the content properties include at least one of text formatting, paragraph alignments or indents and in response selecting the plurality of summary entries based on differences in said at least one of text formatting, paragraph alignments or indents; and otherwise selecting the plurality of summary entries based on differences in said paragraph sizes.

Claim 41 (Previously Presented) The computer program product of claim 10, wherein said selecting the plurality of summary entries from the electronic document based on differences in content properties comprises determining if the content properties include at least one of text formatting, paragraph alignments or indents and in response selecting the plurality of summary entries based on differences in said at least one of text formatting, paragraph alignments or indents; and otherwise selecting the plurality of summary entries based on differences in said paragraph sizes.

Claims 42 (Previously Presented) The method of claim 19, wherein said selecting the plurality of summary entries from the electronic document based on differences in content properties comprises determining if the content properties include at least one of text formatting, paragraph alignments or indents and in response selecting the plurality of summary entries based on differences in said at least one of text formatting, paragraph alignments or indents; and otherwise selecting the plurality of summary entries based on differences in said paragraph sizes.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chau Nguyen whose telephone number is (571) 272-4092. The Examiner can normally be reached on Monday-Friday from 8:30 am to 5:30 pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Doug Hutton, can be reached at (571) 272-4137.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. On July 15, 2005, the Central Facsimile (FAX) Number will change from 703-872-9306 to 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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